

☐ SECRET

Approved For Release 2006/03/16 : CIA-RDP78B04770A001800010028-3

☐ UNCLASSIFIED

CONTRACT INSPECTION REPORT

CONTRACT NO.

TASK NO.

TO:

ENGINEERING SECTION/CB/PD/OL

DATE

8 July 1965

INSPECTION REPORT NO. (If final, so state)

19

ESTIMATED COMPLETION DATE

30 July 1966

NAME OF CONTRACTOR

TYPE OF COMMODITY OR SERVICE

Linear Phasolver Techniques Study

THE CONTRACTOR IS ON SCHEDULE

☐ YES

☒ NO

THE CONTRACTOR WILL PROBABLY REMAIN WITHIN ALLOCATED FUNDS ☐ YES ☒ NO IF ANSWER IS "NO" ADVISE RECOMMENDATION AND/OR ACTION OF SPONSORING OFFICE, ON REVERSE HEREOF. IF KNOWN, INDICATE MAGNITUDE OF ADDITIONAL FUNDS INVOLVED.

PER CENT OF WORK COMPLETED - 95%

PER CENT OF FUNDS EXPENDED - 95%

HAS AN INTERIM REPORT, FINAL REPORT, PROTOTYPE, OR OTHER END ITEM BEEN RECEIVED FROM THE CONTRACTOR DURING THE PERIOD? ☒ YES ☐ NO (If yes, give details on reverse side.)

HAS GOVERNMENT-OWNED PROPERTY BEEN DELIVERED TO CONTRACTOR DURING THIS PERIOD? ☐ YES ☒ NO (If yes, indicate items, quantity, and cost on reverse side.)

INCENTIVES

IS THIS AN INCENTIVE CONTRACT
IF YES, CHECK TYPE

☐ YES

☒ NO

☐ COST

☐ PERFORMANCE

☐ DELIVERY

NOTE:
USE REVERSE SIDE FOR COMMENTS.
FINAL REPORT MUST CONTAIN INCENTIVE EVALUATION.

OVERALL PERFORMANCE OF CONTRACTOR

1. ☐ OUTSTANDING

3. ☐ ABOVE AVERAGE

5. ☐ BELOW AVERAGE 7. ☐ UNSATISFACTORY

2. ☐ EXCELLENT

4. ☒ AVERAGE

6. ☐ BARELY ADEQUATE

IF OVERALL PERFORMANCE OF CONTRACTOR IS UNSATISFACTORY OR BARELY ADEQUATE, INDICATE REASONS ON REVERSE SIDE.

RECOMMENDED ACTION

☒ CONTINUE AS PROGRAMMED

☐ WITHHOLD PAYMENT PENDING
SATISFACTORY PERFORMANCE

☐ TERMINATE

☐ OTHER (Specify)

IF TERMINATION IS RECOMMENDED OR IF THIS IS A FINAL REPORT PUT COMMENTS ON REVERSE IN NARRATIVE FORM ON CONTRACTOR'S PERFORMANCE AND CERTIFY THAT ALL DELIVERABLE ITEMS UNDER THE CONTRACT HAVE BEEN RECEIVED. THESE INCLUDE, WHERE APPLICABLE, THE FOLLOWING:

ITEM	REC'D	DOES NOT APPLY	ITEM	REC'D	DOES NOT APPLY
PROTOTYPES			MANUALS		
DRAWINGS AND SPECIFICATIONS			FINAL REPORT		
PRODUCTION AND/OR OTHER END ITEMS			SPECIAL TOOLING		
			OTHER GOVERNMENT PROPERTY		

DATE OF LAST CONTACT WITH CONTRACTOR

24 Jun 1965

Declassification Review by NGA

SIGNATURE OF INSPECTOR

DIVISION

P & D S

INSPECTOR'S EXTENSION

SIGNATURE OF APPROVER

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NARRATIVE REPORT

☒ INTERIM☐ FINAL

Discussion with the contractor revealed that funds allocated for work being performed on the development of the linear phasolver were practically exhausted. However, technically the work performed on this task appears sound and logical with an eye for future improvements on precision measurements.

Presently the contractor has been able to repeat measurements to within $\frac{1}{2}$ to $\frac{1}{4}$ micron. The phasolver error within the pole pairs is stated to be 1.6 micron. Error introduced into the system by the measured guage block is estimated to be 0.2 micron.

Measurements made by this writer found the system capable of reproducing measurements performed by the contractor to within 0.1 micron.

The contractor suggested an encoder be designed and built after the linear phasolver has been completely tested and evaluated. The encoder would yield course position information.

The non-linearity error along the axis of the phasolver has been calibrated to ± 2 micron while the peak-to-peak repeatability is 0.5 micron. The contractor is confident that the non-linear error can be resolved either by calibration or built into the encoder.

Remaining work to be performed on the testing and evaluation of the linear phasolver includes effects due to skew, tilt, gap, humidity and temperature. An additional four to six weeks will be required to complete the testing.

Finally, the contractor would investigate the use of air bearings on the moving head of the linear phasolver.

A request for additional funding, including the above mentioned overrun and a proposed change of scope has been received and is being taken into consideration.